



SERIAL NO.: 10/805,803
PETER H. PRIEST (919-806-1600)

1/16

FIG. 1

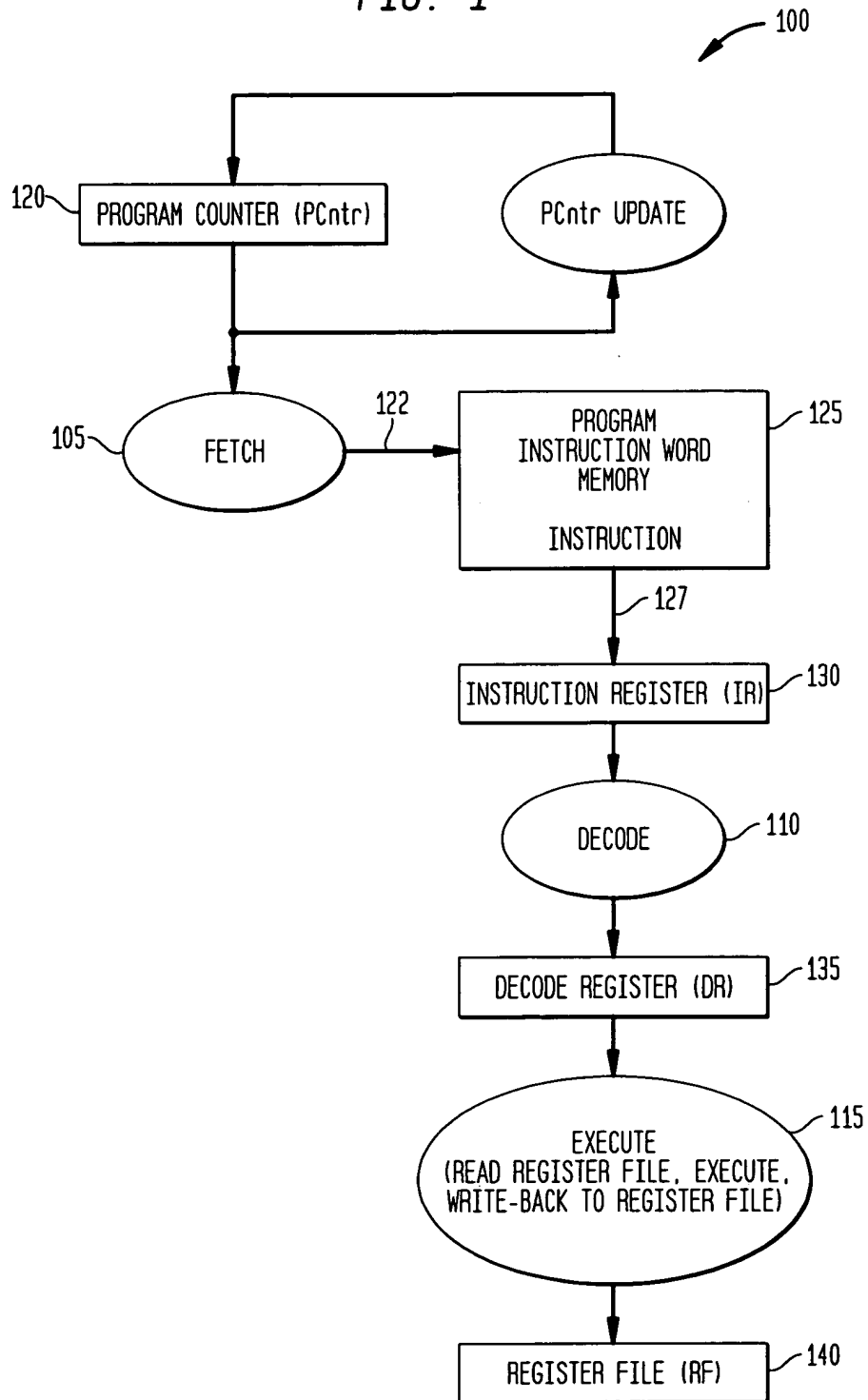


FIG. 2

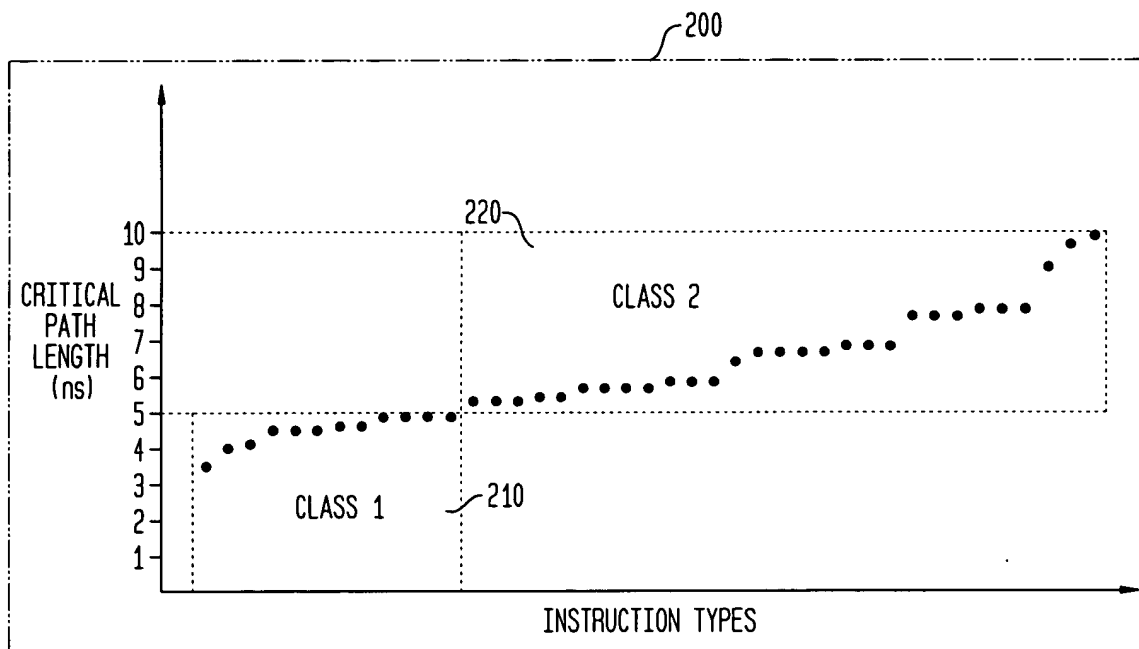
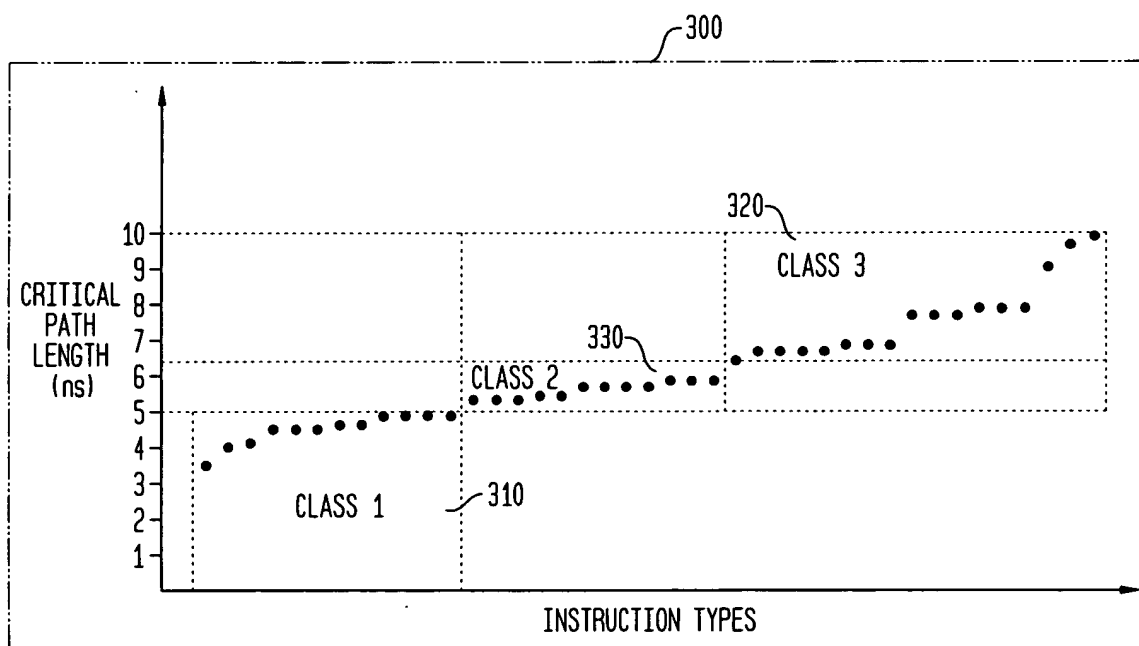


FIG. 3



3/16

FIG. 4

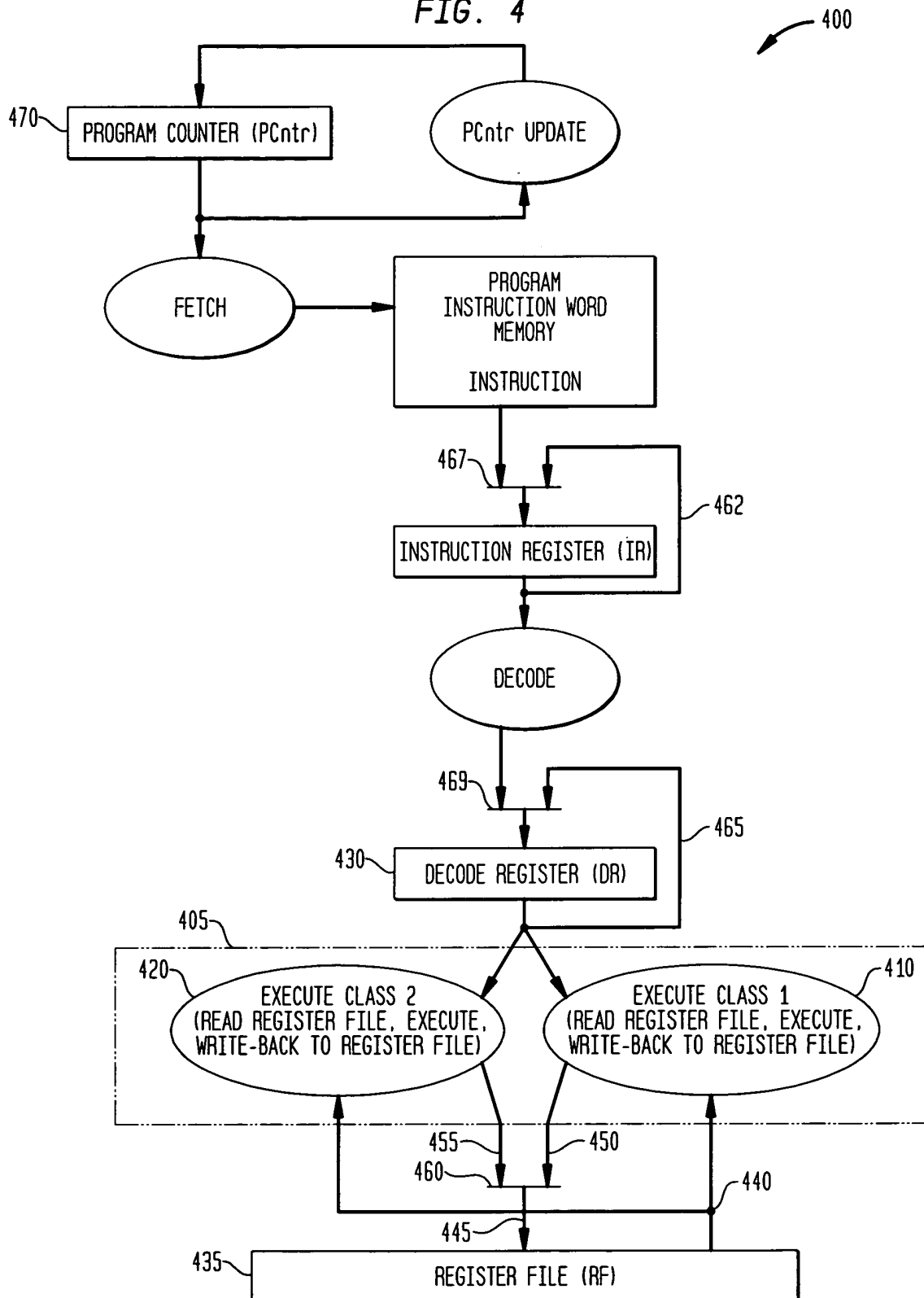


FIG. 5

500

| | 505 MCLK CYCLE # | 510 FETCH | 515 DECODE | 520 EXECUTE |
|-----|------------------------|--------------------------------|--------------------|----------------|
| 543 | 1 | A(1) <u>542</u> | : | : |
| 544 | 2 | B(1) <u>545</u> | A(1) <u>546</u> | : |
| 547 | 3 | C(1) <u>548</u> | B(1) <u>549</u> | A(1) 550 |
| 551 | 4 | D(2) <u>552</u> | C(1) <u>553</u> | B(1) 554 |
| 555 | 5 | E(1) <u>556</u> | D(2) <u>557</u> | C(1) 558 |
| 559 | 6 | HOLD PCntr, HOLD IR <u>560</u> | HOLD DR <u>561</u> | D(2) 525 |
| 563 | 7 | F(1) <u>564</u> | E(1) <u>565</u> | D(2) 562 |
| | 8 | G(2) | F(1) | E(1) 566 |
| | 9 | H(2) | G(2) | F(1) |
| | 10 | HOLD PCntr, HOLD IR | HOLD DR | G(2) 530 |
| | 11 | I(2) | H(2) | G(2) |
| | 12 | HOLD PCntr, HOLD IR | HOLD DR | H(2) 535 |
| | 13 | J(1) | I(2) | H(2) |
| | 14 | HOLD PCntr, HOLD IR | HOLD DR | I(2) 540 |
| | 15 | K(1) | J(1) | I(2) |
| | 16 | L(1) | K(1) | J(1) |
| | 17 | : | L(1) | K(1) |
| | 18 | : | : | L(1) |
| | 19 | : | : | : |

5/16

FIG. 6

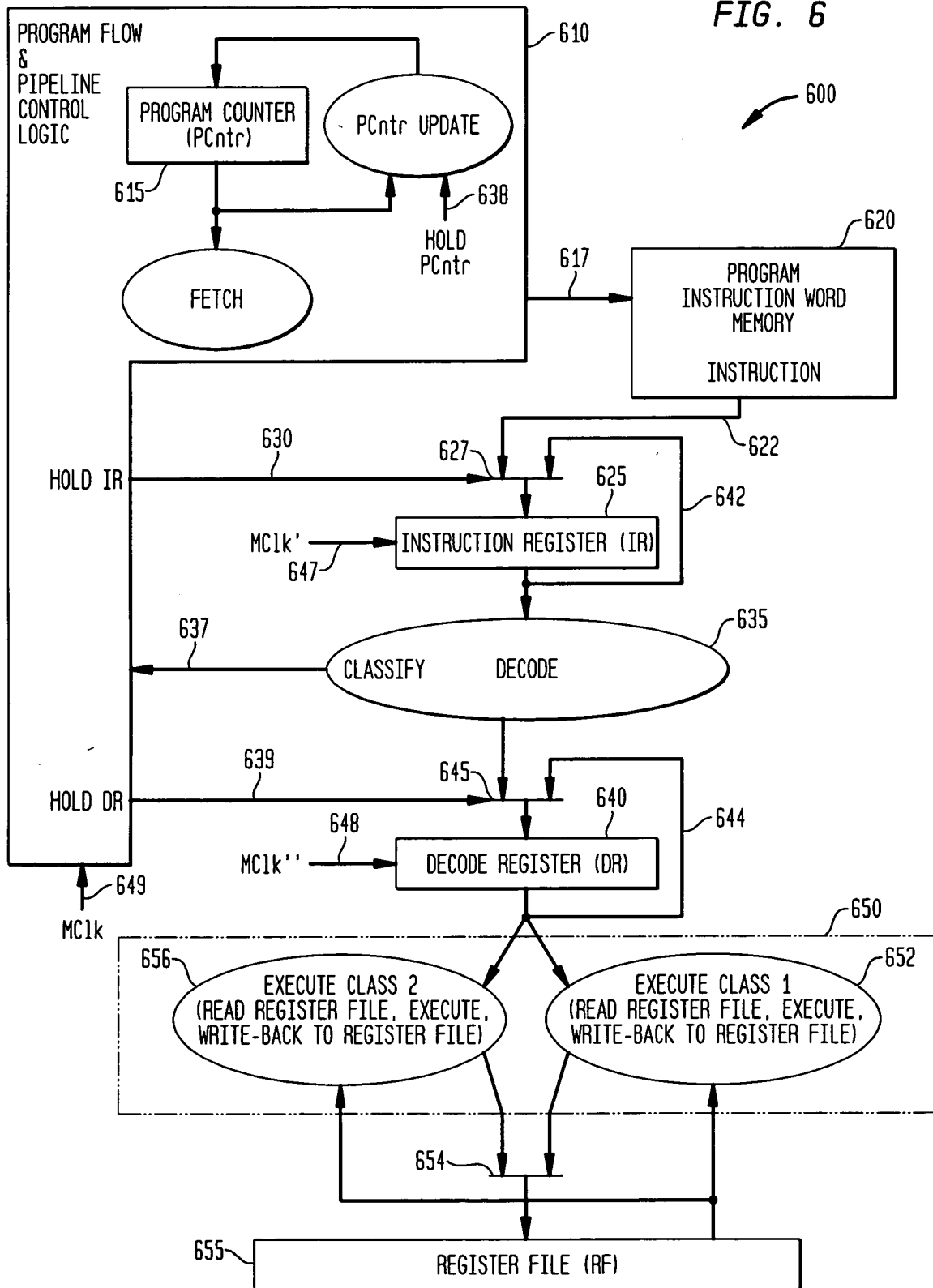
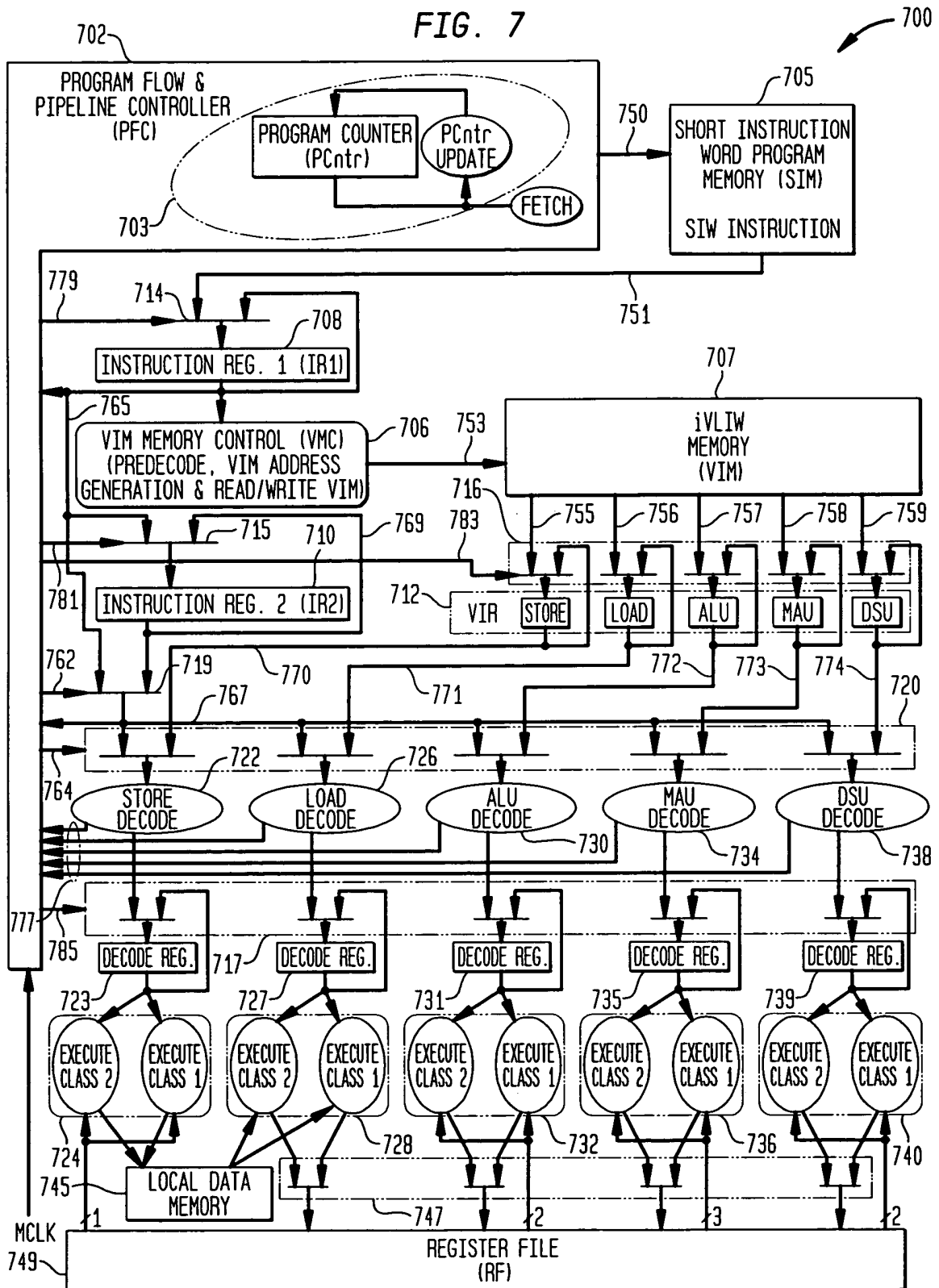


FIG. 7



7/16

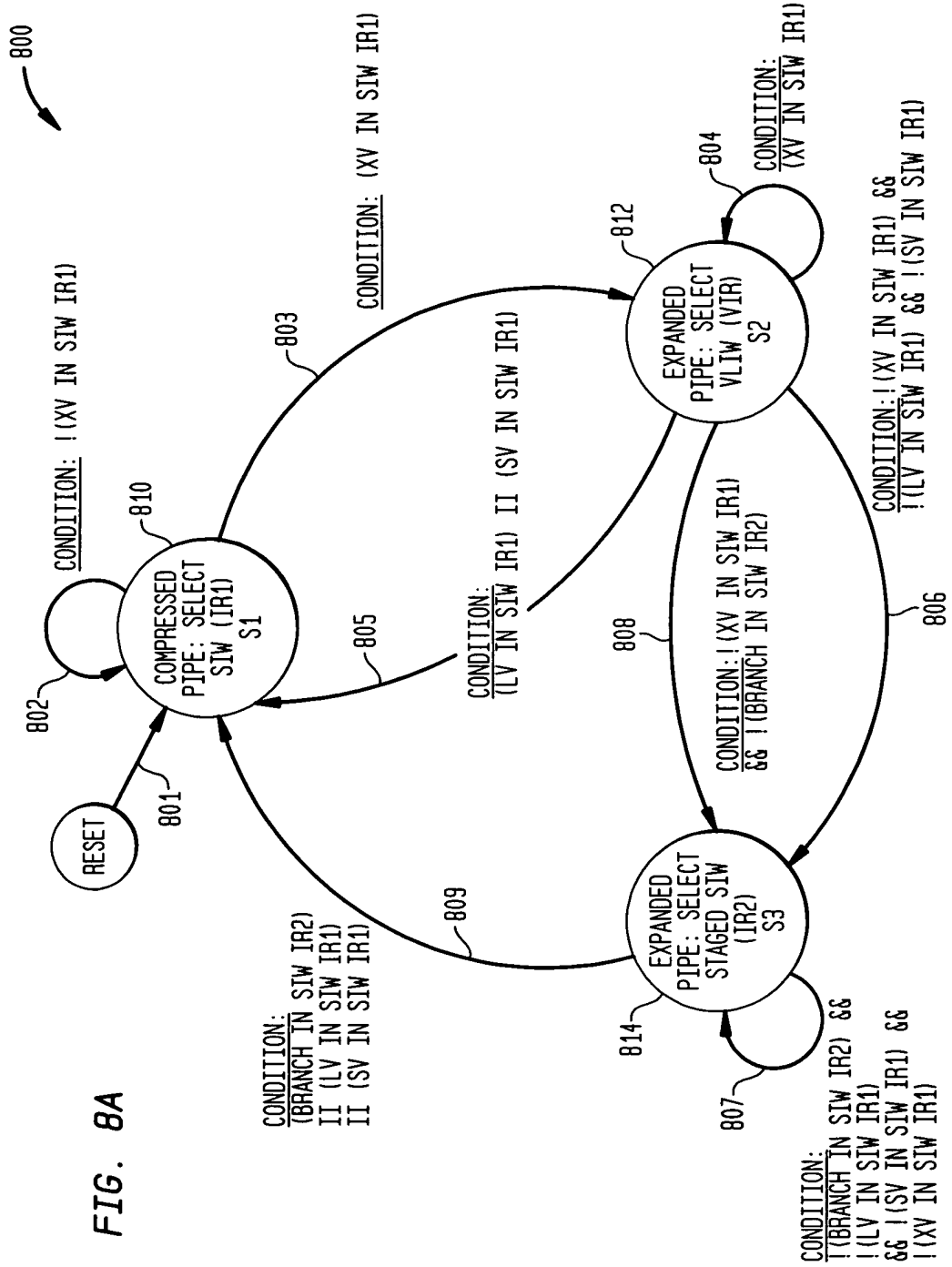


FIG. 8B

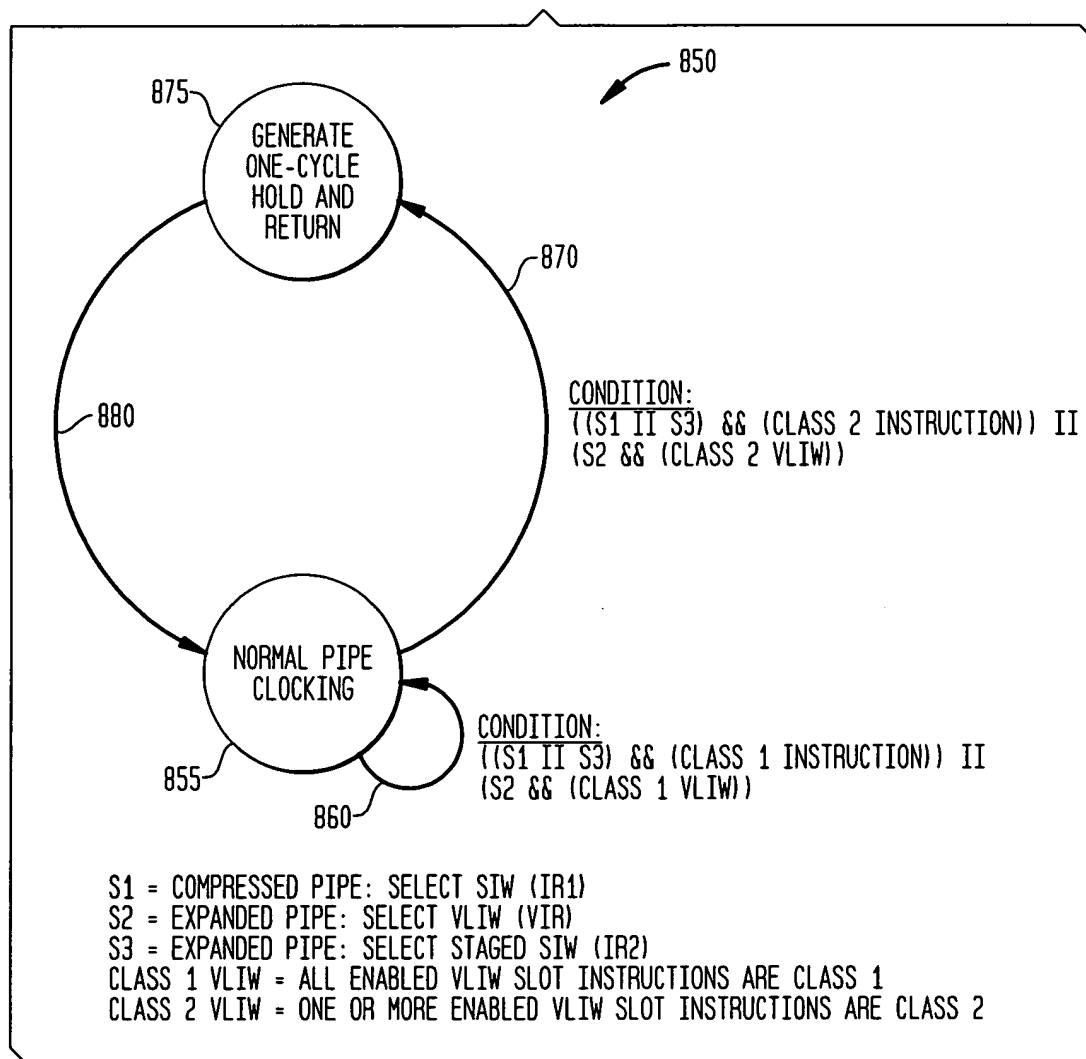
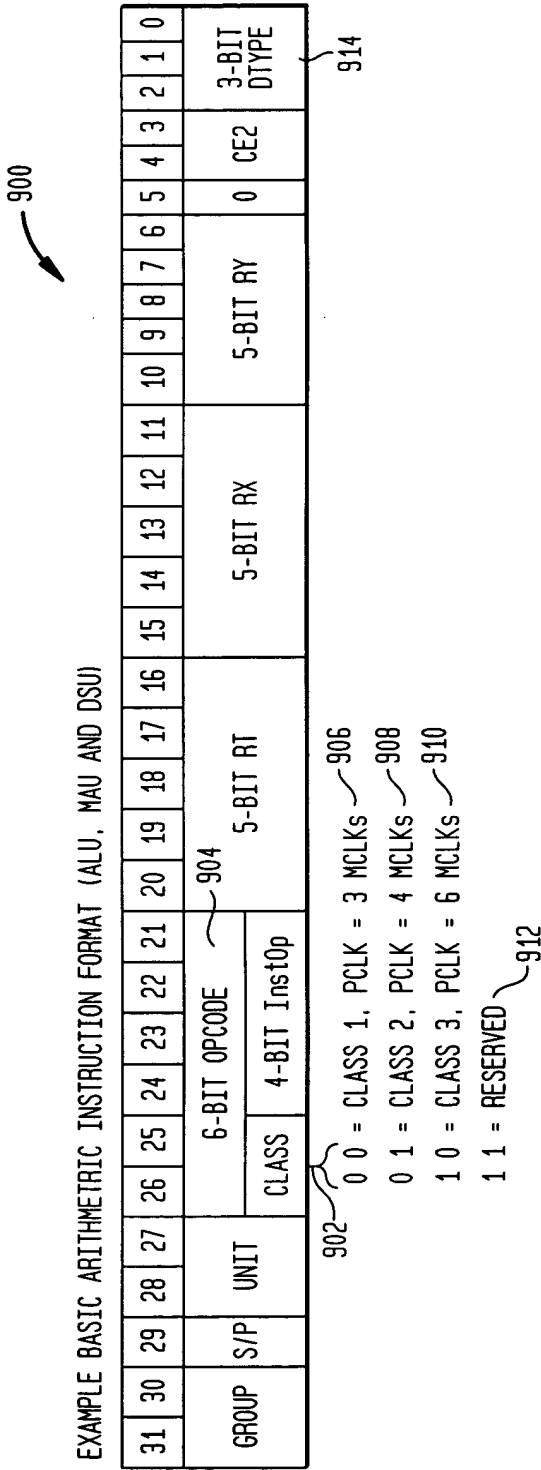


FIG. 9A



10/16

FIG. 9B

925

| | 926 MCLK CYCLE # | 927 PCLK CYCLE # | 928 FETCH | 929 DECODE | 930 EXECUTE |
|-----|------------------------|------------------------|--------------|---------------|----------------|
| 934 | 1 | 1 933 | A(1) 932 | : | : |
| 935 | 2 | | | | |
| 936 | 3 | | | | |
| 940 | 4 | 2 937 | B(2) 938 | A(1) 939 | : |
| 941 | 5 | | | | |
| 942 | 6 | | | | |
| 947 | 7 | 3 943 | C(3) 944 | B(2) 945 | A(1) 946 |
| 948 | 8 | | | | |
| 949 | 9 | | | | |
| 954 | 10 | 4 950 | D(1) 951 | C(3) 952 | B(2) 953 |
| 955 | 11 | | | | |
| 956 | 12 | | | | |
| 957 | 13 | | | | |
| 962 | 14 | 5 958 | E(1) 959 | D(1) 960 | C(3) 961 |
| 963 | 15 | | | | |
| 964 | 16 | | | | |
| 965 | 17 | | | | |
| 966 | 18 | | | | |
| 967 | 19 | | | | |
| 972 | 20 | 6 968 | F(1) 969 | E(1) 970 | D(1) 971 |
| 973 | 21 | | | | |
| 974 | 22 | | | | |
| | 23 | 7 | : | : | : |
| | 24 | | | | |
| | 25 | | | | |

11/16

FIG. 10

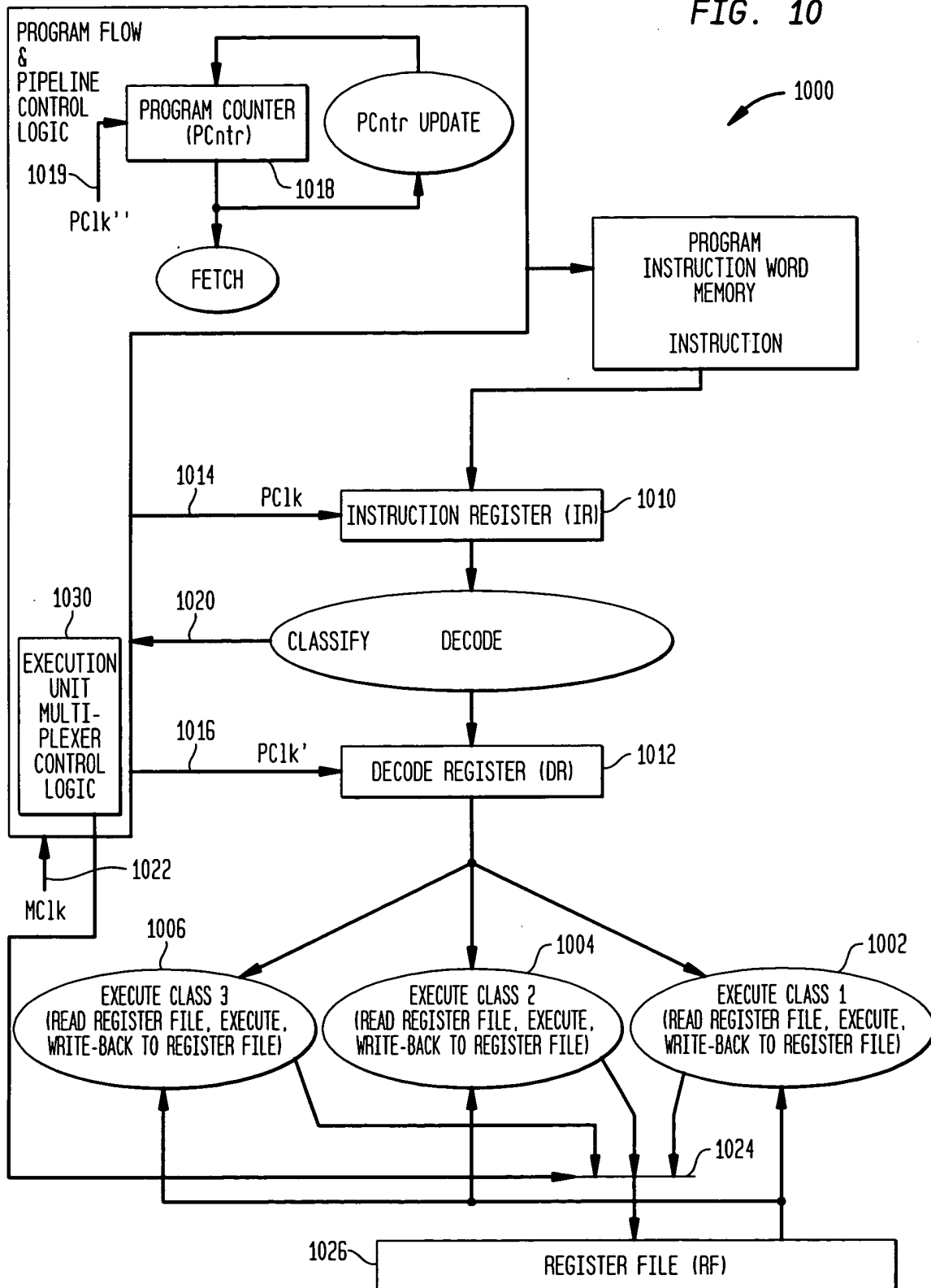


FIG. 11

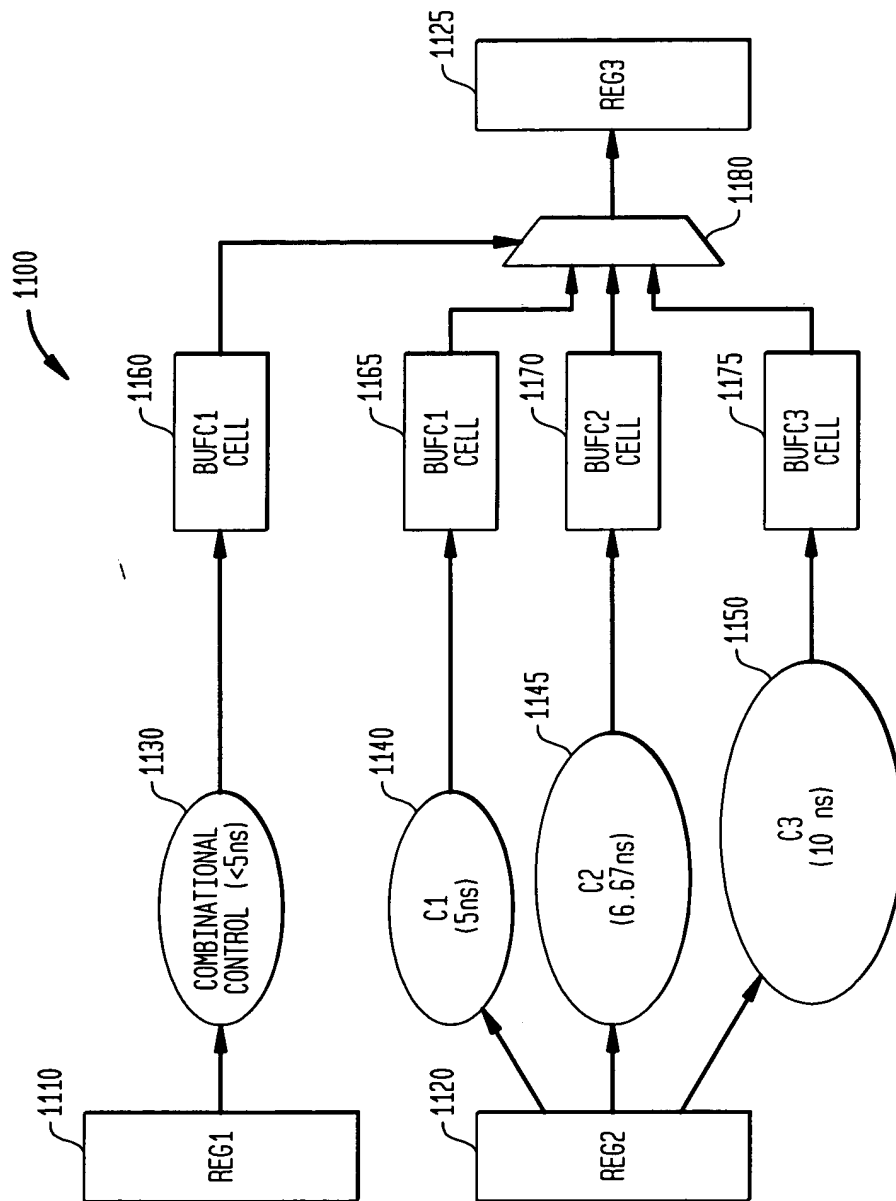


FIG. 12

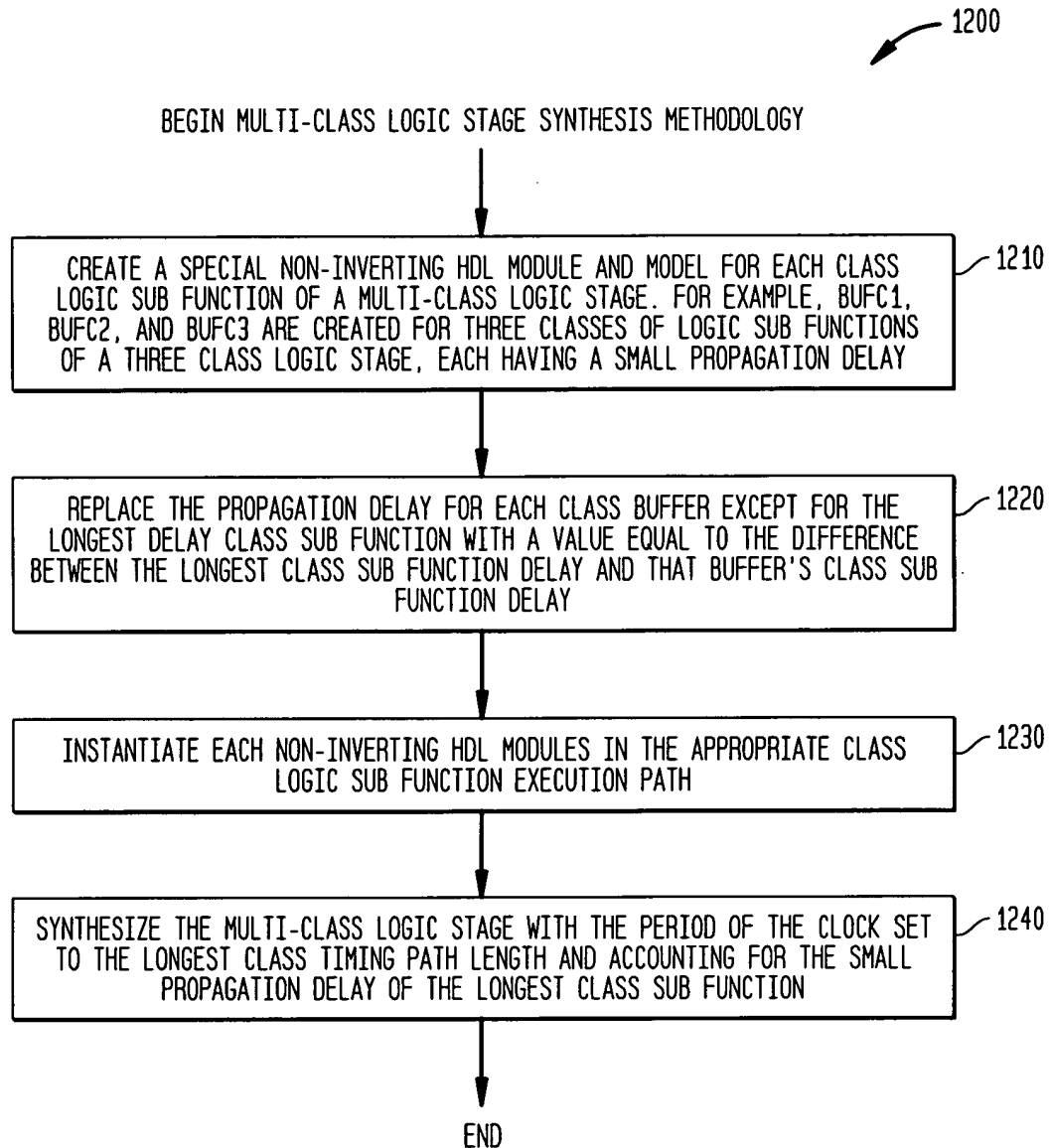


FIG. 13

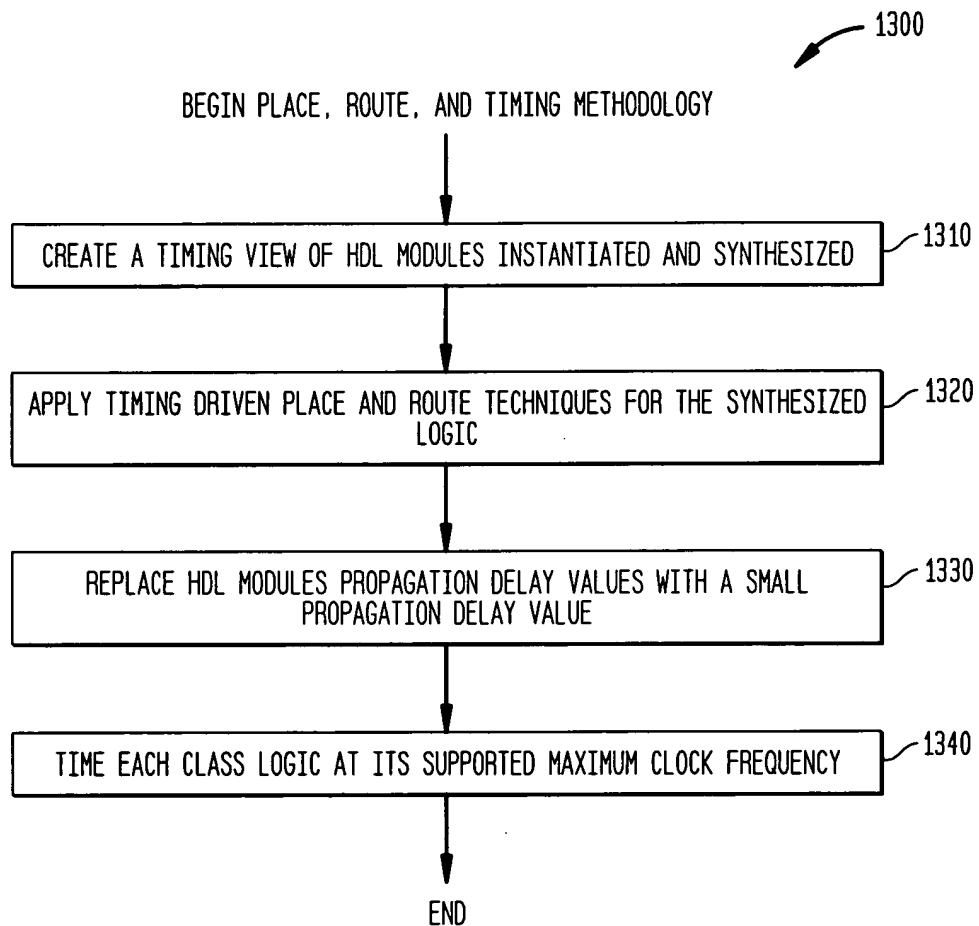


FIG. 14

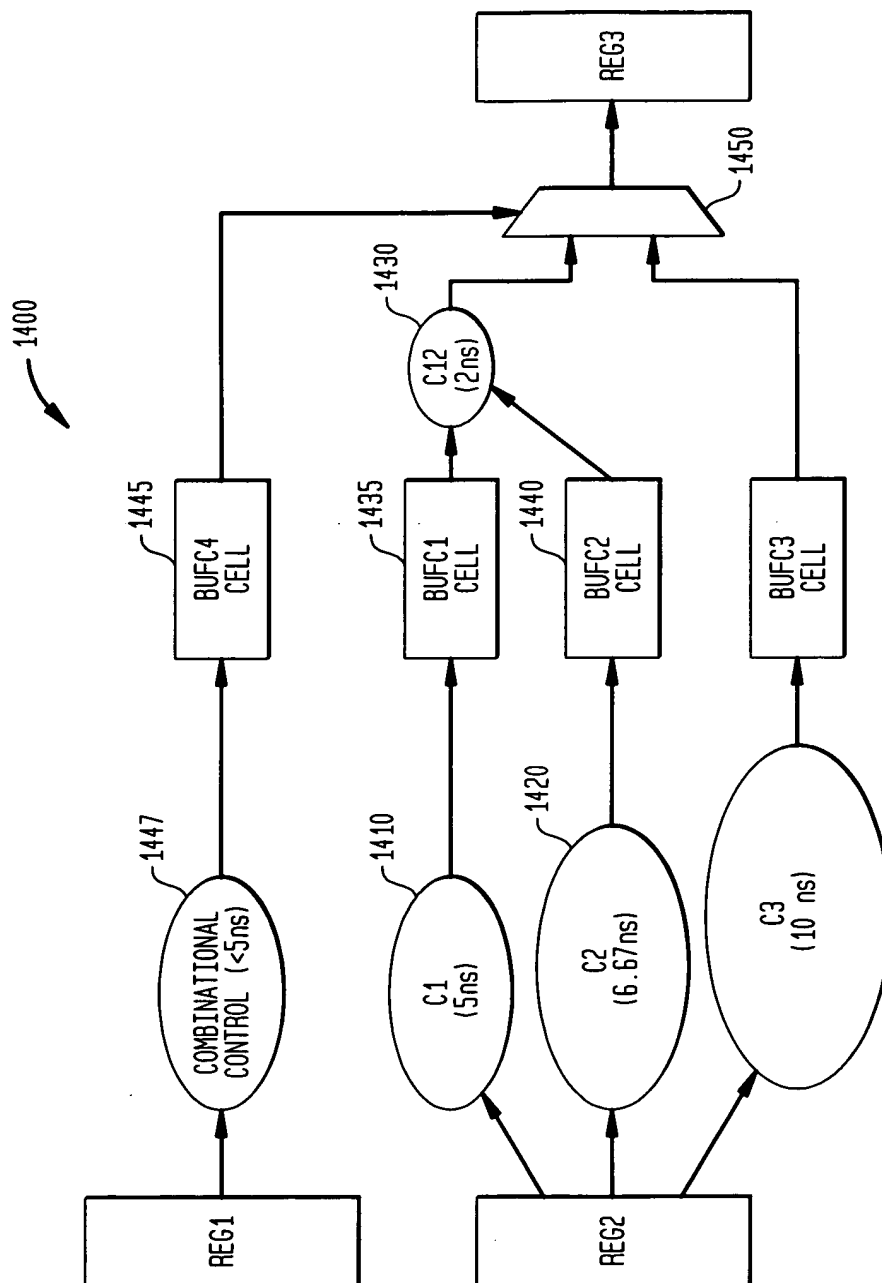


FIG. 15

